



TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-03-11-54 **Date:** 03-12-18
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-11-19
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 01-12-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	—
2	Finess by Air permeability method (m ² /kg.Min)	287.5	225m ² /kg, Min
3	Density (gm/cc)	3.12	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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Dr. H. N. D.
AE (W&S)

Aug



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R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager



TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-03-11-54 **Date:** 29-12-18

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-11-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 01-12-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	56.5N/mm ²	Not less than 53 N/mm ²

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Authorized Signatory
Technical Manager



TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-03-11-54 Date: 04-12-18
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07,
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 30-11-19
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 01-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---





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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2019-03-11-54

Date: 04-12-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.56	—
5	Bulk Density(Compacted) (Kg/l)	1.59	—
6	Water Absorption(%)	0.21	—

Note:

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R. Rudraprasad

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Authorized Signatory
Technical Manager

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AE (121)

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-03-11-54 **Date:** 03-12-18
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-11-19
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 01-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2019-03-11-54

Date: 03-12-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.53	—
5	Bulk Density(Compacted) (Kg/l)	1.55	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Technical Manager



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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-03-11-54 **Date:** 03-12-18
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura
Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North-
562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-11-19
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 01-12-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	145	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	165	395	39.5	60.5	30-70	55-90	75-100	90-100
5	600 micron	187	582	58.2	41.8	15-34	35-59	60-79	80-100
6	300 micron	175	757	75.7	24.3	5-20	8-30	12-40	15-50
7	150 micron	155	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-03-11-54

Date: 03-12-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

As per N.D.
(Signature)

(Signature)

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****End of Report****

**TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS**

Lab ID : CP-2019-03-11-54 Date: 24-01-19
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-01-19
Sample Type/Size : Solid concrete blocks size (400X150X200)mm
Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test : 21-01-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	404	151	198	12079	33.288	2755.9	2725.6	Not less than 1800Kg/m ³
2	400	152	202	12282	33.615	2737.0		
3	401	152	203	12373	33.208	2683.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		





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CP-2019-03-11-54

Date: 24-01-19

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	152	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	153	201	
3	402	151	199	
4	401	152	203	
5	404	153	199	
6	402	152	201	
7	400	151	200	
8	401	153	203	
9	401	151	200	
10	401	152	202	
11	403	151	202	
12	404	150	203	
13	404	152	200	
14	401	153	200	
15	403	152	201	
16	401	153	200	
17	402	152	199	
18	403	150	202	
19	403	152	202	
20	403	151	203	
Average of 20	402	152	201	

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Lab ID : CP-2019-03-11-54

Date: 24-01-19

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	402	152	61160	290.8	4.8	4.4
2	401	153	61402	268.4	4.4	
3	402	151	60758	270.9	4.5	
4	401	152	61007	286.4	4.7	
5	404	153	61802	249.2	4.0	
6	402	152	61115	258.6	4.2	
7	400	151	60341	256.4	4.2	
8	401	153	61318	289.1	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

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Authorized Signatory
Technical Manager



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TEST RESULTS OF STEEL

Lab ID : CP-2019-03-11-54 **Date:** 05-12-18

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura
Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore
North- 562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-12-18

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 04-12-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.392	514	653	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	526	674	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	542	667	20.0%	Satisfactory	Satisfactory

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AE (1st)

Signature



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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-11-54 Date: 17/12/2018
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-12-18
Customer ID : Footing Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Footing Concrete	M20	10/12/2018	17/12/2018	149.06 X 151.57 X 150.19	22593	8.070	422.9	18.7	18.7
2	Footing Concrete	M20	10/12/2018	17/12/2018	150.70 X 151.56 X 150.25	22841	8.587	431.3	18.9	
3	Footing Concrete	M20	10/12/2018	17/12/2018	150.52 X 149.24 X 149.98	22463	8.248	418.9	18.7	

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Asst. Eng. N.D.
A.E. (W)

[Signature]

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/01/2019

Lab ID : CP-2019-03-11-54
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-12-18
Customer ID : Footing Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/01/2019

Date of test : 07/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Footing Concrete	M20	10/12/2018	07/01/2019	151.85 X	22985	8.837	547.8	23.8	23.1
					151.37 X					
					149.28					
2	Footing Concrete	M20	10/12/2018	07/01/2019	149.88 X	22466	8.146	503.3	22.4	
					149.90 X					
					149.73					
3	Footing Concrete	M20	10/12/2018	07/01/2019	151.93 X	23055	8.842	530.5	23.0	
					151.75 X					
					149.85					

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-11-54 **Date:** 17/12/2018
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-12-18
Customer ID : Footing Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/12/2018

Date of test : 17/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Footing Concrete	M20	10/12/2018	17/12/2018	151.20 X	22840	8.070	429.4	18.8	18.4
					151.05 X					
					149.19					
2	Footing Concrete	M20	10/12/2018	17/12/2018	149.95 X	22435	8.587	413.9	18.4	
					149.62 X					
					150.86					
3	Footing Concrete	M20	10/12/2018	17/12/2018	151.47 X	22720	8.248	410.0	18.0	
					149.99 X					
					151.93					

Note:

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M. N. D.
DEC 18

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/01/2019

Lab ID : CP-2019-03-11-54
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-12-18
Customer ID : Footing Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Footing Concrete	M20	10/12/2018	07/01/2019	149.62 X 150.15 X 150.54	22465	8.837	538.7	24.0	23.3
2	Footing Concrete	M20	10/12/2018	07/01/2019	151.71 X 149.86 X 149.31	22735	8.146	512.6	22.5	
3	Footing Concrete	M20	10/12/2018	07/01/2019	149.91 X 150.12 X 151.27	22505	8.842	524.6	23.3	

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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-11-54 Date: 24/12/2018
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-12-18
Customer ID : Column Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 24/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Column Concrete	M20	17/12/2018	24/12/2018	149.47 X	22483	8.070	424.8	18.9	18.8
					150.42 X					
					150.80					
2	Column Concrete	M20	17/12/2018	24/12/2018	149.78 X	22493	8.587	426.0	18.9	
					150.17 X					
					150.70					
3	Column Concrete	M20	17/12/2018	24/12/2018	149.38 X	22289	8.248	412.8	18.5	
					149.21 X					
					149.91					

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AEL

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/01/2019

Lab ID : CP-2019-03-11-54
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-12-18
Customer ID : Column Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 14/01/2019

Date of test : 14/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength		
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)		
1	Column Concrete	M20	17/12/2018	14/01/2019	151.80 X	22741	8.837	526.2	23.1	23.0		
					149.80 X							
					150.78							
2	Column Concrete	M20	17/12/2018	14/01/2019	149.62 X	22554	8.146	508.4	22.5		23.0	
					150.74 X							
					149.70							
3	Column Concrete	M20	17/12/2018	14/01/2019	151.43 X	22590	8.842	524.9	23.2			23.0
					149.18 X							
					151.81							

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14/01/2019
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14/01/2019



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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-11-54 Date: 24/12/2018
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-12-18
Customer ID : Column Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/12/2018

Date of test : 24/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Column Concrete	M20	17/12/2018	24/12/2018	149.00 X	22384	8.070	406.9	18.2	18.1
					150.22 X					
					149.27					
2	Column Concrete	M20	17/12/2018	24/12/2018	149.65 X	22562	8.587	406.7	18.0	
					150.77 X					
					151.71					
3	Column Concrete	M20	17/12/2018	24/12/2018	149.45 X	22367	8.248	407.6	18.2	
					149.66 X					
					151.65					

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-11-54 Date: 14/01/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-12-18
Customer ID : Column Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 14/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Column Concrete	M20	17/12/2018	14/01/2019	150.97 X 151.37 X 149.86	22853	8.837	537.6	23.5	23.2
2	Column Concrete	M20	17/12/2018	14/01/2019	151.30 X 150.97 X 149.78	22843	8.146	514.4	22.5	
3	Column Concrete	M20	17/12/2018	14/01/2019	150.13 X 151.80 X 151.84	22789	8.842	536.7	23.6	

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AE(19)

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-11-54 Date: 10/01/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-01-19
Customer ID : Plinth Beam Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 10/01/2019

Date of test : 10/01/2019										
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Plinth Beam Concrete	M20	03/01/2019	10/01/2019	149.70 X	22371	8.070	413.7	18.5	18.4
					149.44 X					
					150.52					
2	Plinth Beam Concrete	M20	03/01/2019	10/01/2019	150.50 X	22597	8.587	420.9	18.6	
					150.14 X					
					150.04					
3	Plinth Beam Concrete	M20	03/01/2019	10/01/2019	150.75 X	22521	8.248	409.4	18.2	
					149.39 X					
					150.10					

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Asst. Eng. N.D.
AEC (7)

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/01/2019

Lab ID : CP-2019-03-11-54
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-01-19
Customer ID : Plinth Beam Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Plinth Beam Concrete	M20	03/01/2019	31/01/2019	151.88 X 150.54 X 151.21	22863	8.837	530.8	23.2	22.8
2	Plinth Beam Concrete	M20	03/01/2019	31/01/2019	150.82 X 149.06 X 150.44	22481	8.146	496.4	22.1	
3	Plinth Beam Concrete	M20	03/01/2019	31/01/2019	150.16 X 149.18 X 149.07	22400	8.842	515.3	23.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-11-54 Date: 01/02/2019

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.

Customer's Reference : BBMP/EE/BTP/WO/72/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-01-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Lintel Concrete	M20	25/01/2019	01/02/2019	151.66 X 150.92 X 151.71	22889	8.070	430.5	18.8	18.6
2	Lintel Concrete	M20	25/01/2019	01/02/2019	151.28 X 150.62 X 151.31	22786	8.587	423.0	18.6	
3	Lintel Concrete	M20	25/01/2019	01/02/2019	149.91 X 150.06 X 150.76	22496	8.248	417.8	18.6	

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As per N.O.
AE (W2)

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 Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-11-54 Date: 22/02/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-01-19
Customer ID : Lintel Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 22/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)					(Sq.mm)
1	Lintel Concrete	M20	25/01/2019	22/02/2019	150.04 X	22368	8.837	536.3	24.0	23.5
					149.08 X					
					150.12					
2	Lintel Concrete	M20	25/01/2019	22/02/2019	149.97 X	22413	8.146	514.5	23.0	
					149.45 X					
					150.61					
3	Lintel Concrete	M20	25/01/2019	22/02/2019	149.12 X	22624	8.842	535.4	23.7	
					151.71 X					
					150.21					

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Technical Manager



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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/02/2019

Lab ID : CP-2019-03-11-54
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-01-19
Customer ID : Chejja Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Chejja Concrete	M20	25/01/2019	01/02/2019	150.85 X 149.37 X 151.53	22533	8.070	405.9	18.0	18.2
2	Chejja Concrete	M20	25/01/2019	01/02/2019	149.22 X 150.22 X 149.45	22416	8.587	409.8	18.3	
3	Chejja Concrete	M20	25/01/2019	01/02/2019	150.41 X 149.43 X 151.67	22476	8.248	412.8	18.4	

Note:

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All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R- Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager



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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-11-54 Date: 07/02/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 02-02-19
Customer ID : Roof Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 07/02/2019

Date of test : 07/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Roof Concrete	M20	31/01/2019	07/02/2019	150.20 X	22495	8.070	419.1	18.6	18.5
					149.76 X					
					150.50					
2	Roof Concrete	M20	31/01/2019	07/02/2019	150.63 X	22718	8.587	424.3	18.7	
					150.82 X					
					150.39					
3	Roof Concrete	M20	31/01/2019	07/02/2019	149.90 X	22773	8.248	416.4	18.3	
					151.93 X					
					151.51					

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*As per N.D.
A. (W)*

[Signature]

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****End of Report****



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[Signature]
R. RUDRAPRASAD
Authorized Signatory
Technical Manager



TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-11-54 Date: 28/02/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 02-02-19
Customer ID : Roof Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/02/2019

Date of test : 28/02/2019										
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Roof Concrete	M20	31/01/2019	28/02/2019	151.74 X	22960	8.837	544.6	23.7	23.0
					151.32 X					
					149.64					
2	Roof Concrete	M20	31/01/2019	28/02/2019	150.30 X	22509	8.146	501.1	22.3	
					149.76 X					
					149.77					
3	Roof Concrete	M20	31/01/2019	28/02/2019	150.50 X	22768	8.842	526.9	23.1	
					151.28 X					
					149.50					

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Asst. Eng. N.D.
DE (W)

Devg



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Authorized Signatory
Technical Manager



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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-11-54 **Date:** 07/02/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 02-02-19
Customer ID : Roof Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/02/2019

Date of test : 07/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength		
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)		
1	Roof Concrete	M20	31/01/2019	07/02/2019	151.40 X	22855	8.070	423.9	18.5	18.6		
					150.96 X							
					150.65							
2	Roof Concrete	M20	31/01/2019	07/02/2019	150.42 X	22422	8.587	424.6	18.9		18.6	
					149.07 X							
					150.74							
3	Roof Concrete	M20	31/01/2019	07/02/2019	149.52 X	22637	8.248	413.8	18.3			18.6
					151.40 X							
					150.81							

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DE(WA)

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-03-11-54 Date: 28/02/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No.07, Byatarayanapura.
Agency : Sri.B.B Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru(p), Bangalore North- 562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 02-02-19
Customer ID : Roof Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Roof Concrete	M20	31/01/2019	28/02/2019	151.48 X 149.72 X 149.00	22680	8.837	538.5	23.7	23.3
2	Roof Concrete	M20	31/01/2019	28/02/2019	151.22 X 151.01 X 150.68	22837	8.146	508.7	22.3	
3	Roof Concrete	M20	31/01/2019	28/02/2019	151.47 X 150.96 X 151.04	22867	8.842	545.3	23.8	

Note:

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18/02/2019 N.D
DE (W)

Signature



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Authorized Signatory
Technical Manager



TEST REPORT OF CERAMIC TILES

Lab ID : CP-2019-03-11-54 **Date:** 09-01-19
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Construction and Improvements of Toilets in Sahakaranagar, Byatarayanapura Surrounding Areas in Ward No. 07, Byatarayanapura.
Agency : Sri. B.B. Umesh, No. 385/1, Near Anjeneya Temple Bettahalasuru (P), Bangalore North-562157.
Customer's Reference : BBMP/EE/BTP/WO/72/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 07-01-19
Sample Type/ Size : Ceramic tiles (300X300)mm
Reference to BIS codes : IS 13630 (part 1) : 2006, IS 15622:2006
Date of test : 07-01-19

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	12.04	12.01	12.08	12.04
2	300	300	300	300	12.01	12.03	12.01	12.01
3	300	300	300	300	12.03	12.01	12.03	12.03
4	300	300	300	300	12.06	12.05	12.08	12.06
5	300	300	300	300	12.08	12.01	12.05	12.08
6	300	300	300	300	12.03	12.07	12.03	12.07
7	300	300	300	300	12.01	12.01	12.01	12.01
8	300	300	300	300	12.02	12.01	12.04	12.01
9	300	300	300	300	12.04	12.04	12.02	12.04
10	300	300	300	300	12.04	12.01	12.05	12.04
Average	300		300		12.04			

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R. Kumar



TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1202	1245	3.58	3.13
2	1211	1244	2.73	
3	1254	1295	3.27	
4	1204	1251	3.90	
5	1231	1258	2.19	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No	Dimension (mm)			Wet Transverse Strength	Average
Sl.No.	L	B	T	(N/mm ²)	(N/mm ²)
1		400	6.02	12.5	12.36
2	300	300	6.03	12.4	
3	300	300	6.01	12.9	
4	300	300	6.07	11.9	
5	300	300	6.05	12.1	

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DE (M)

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R. Rudraprasad
R RUDRAPRASAD

Authorized Signatory

Technical Manager